



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jeffrey M. Sieracki; Confirmation No. 6900
Richard B. North
Serial No.: 10/696,778
Filed: October 29, 2003 Customer No.: 28863
Examiner: Unknown
Group Art Unit: 3762 Docket No.: 1023-229US01
Title: APPLYING FILTER INFORMATION TO IDENTIFY COMBINATIONS
OF ELECTRODES

CERTIFICATE UNDER 37 CFR 1.8: I hereby certify that this correspondence is being deposited with the United States Post Service, as First Class Mail, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on April 9, 2004.

By:

Name: Shirley A. Betlach

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits the references listed on the attached form PTO-1449. This statement is being filed, to the best of Applicant's knowledge, before the receipt of a first Office Action on the merits.

Applicants have enclosed a copy of each article cited and each foreign document cited. Copies of the U.S. patents are not enclosed as this application was filed after June 30, 2003.

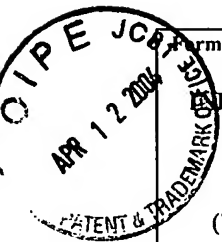
. Respectfully submitted,

Date:

04-09-04

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Form 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number:	Application Number:
	1023-229US01	10/696,778
	Applicant:	
	Jeffrey M. Sieracki; Richard B. North	
	Filing Date:	Group Art Unit:
	October 29, 2003	3762
	Examiner Name:	
	Unknown	

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue/Document Publication Date	Name	Filing Date If Appropriate
	5,370,672	12/06/1994	Fowler et al.	
	5,938,690	08/17/1999	Law et al.	
	6,052,624	04/18/2000	Mann	
	6,308,102	10/23/2001	Sieracki et al.	
	2002/0116036	08/22/2002	Daignault, Jr. et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Publication Date	Country	Translation	
				Yes	No
	0 811 395	12/10/1997	EPO		

OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)

	Fowler, K.R., "Neurological Stimulation System", Proceedings AAMI 21 st Annual Meeting, Apr. 12-16, p. 27, 1986.
	Fowler, K. R., North, R.B.: "Patient-interactive PC interface to implanted, multichannel stimulators," Proceedings of 39 th Annual Conference on Engineering in Medicine and Biology, p. 380, 1986.
	North, R.B., Fowler, K.R., "Computer-controlled, patient-interactive, multichannel, implanted neurological stimulators," Applied Neurophysiology, 50:39-41, 1987.
	North, R.B., Nigrin, D.J., Szymanski, R.E., Fowler, K.R., "Computer-controlled, multichannel, implanted neurological stimulation system: Clinical assessment," Pain (Suppl.), 5:S83, 1990.
	Fowler, K.R., North, R.B., "Computer-optimized neurological stimulation," Proc. Ann. Internat. Conf. IEEE Engineering Medicine and Biology Soc., 13:1692-1693, 1991.
	Fowler, K.R., North, R.B., "Computer-optimized neurostimulation," APL Technical Digest, 12:192-197, 1991.
	North, R.B., et al., "Spinal cord stimulation for chronic intractable pain: superiority of 'multi-channel' devices," Pain, V44, pp. 119-130, 1991.
	North, R.B., Fowler, K.R., "Computer-controlled, patient-interactive neurological stimulation system," (Abstract) Acta Neurochir, 117:90, 1992.

EXAMINER	Date Considered

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OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)					
	North, R.B., Fowler, K.R., Nigrin, D.A., Szymanski, R.E., "Patient interactive, computer-controlled neurological stimulation system: Clinical efficacy in spinal cord stimulator adjustment," Journal of Neurosurgery, 76:967-972, 1992.				
	North, R.B., Fowler, K.R., Nigrin, D.A., Szymanski, R.E., Piantadosi, S., "Automated 'pain drawing' analysis by computer-controlled, patient-interactive neurological stimulation system," Pain, 50:51-57, 1992.				
	North, R.B., "Spinal Cord Stimulation for Chronic Intractable Pain," Electrical and Magnetic Stimulation of the Brain and Spinal Cord, pp. 289-301, 1993.				
	North, R.B., "The Role of Spinal Cord Stimulation in Contemporary Pain Management," APS Journal, vol. 2, No. 2, pp. 91-99, 1993.				
	North, R. B., Kidd, D. H., Zahurak, M., James, C. S., Long, D. M., "Spinal cord stimulation for chronic, intractable pain: Experience over two decades," Neurosurgery, 32:384-395, 1993.				
	North, R.B., Fowler, K.R., "Patient-interactive, microprocessor-controlled neurological stimulation system" (abstract), Stereotactic and Functional Neurosurgery, 62:309-315, 1994.				
	North, R. B., Levy, R. M., "Consensus conference on the neurosurgical management of pain," Neurosurgery, 34:756-761, 1994.				
	North, R. B., Kidd, D. H., Lee, M. S., Piantadosi, S., "A prospective, randomized study of spinal cord stimulation versus reoperation for the failed back surgery syndrom," Stereotactic and Functional Neurosurgery, 62:267-272, 1994.				
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OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)					
	North, R.B., et al., "Spinal Cord Stimulation For Chronic Pain," Functional Neurosurgery, vol. 6, No. 1, pp. 145-155, Jan. 1995.				
	North, R.B., Cutchis, P., "Spinal cord stimulation for chronic intractable pain," Spinal Cord Stimulation II, pp. 49-63, Darmstadt, Steinkopff, 1995.				
	North, R.B., McNamee, P., Wu, L., Piantadosi, S., "Artificial neural networks: Application to electrical stimulation of the human nervous system," (abstract) Stereotactic and Functional Neurosurgery, 65:161, 1995.				
	North, R. B., Kidd, D. H., Wimberly, R. L., Edwin, D., "Prognostic value of psychological testing in spinal cord stimulation patients: A prospective study," Neurosurgery, 39:301-311, 1996.				
	North, R. B., Kidd, D. H., Zahurak, M., Piantadosi, S., "Specificity of diagnostic nerve blocks: A prospective, randomized study of sciatica due to lumbosacral spine disease," Pain, 65:77-85, 1996.				
	North, R.B., McNamee, P., Wu, L., Piantadosi, S., "Artificial neural networks: Application to electrical stimulation of the human nervous system," Neurosurgical Focus, 2(1:1):1-5, 1997.				
	Alo, K. M. et al., "Computer Assisted and Patient Interactive Programming of Dual Octrode Spinal Cord Stimulation in the Treatment of Chronic Pain," Neuromodulation, vol. 1, No. 1, pp. 30-45, 1998.				
	North, R.B., Sieracki, J.N., Fowler, K.R., Alvarez, B., Cutchis, P.N., "Patient-interactive, microprocessor-controlled neurological stimulation system," Neuromodulation, 1(4):185-193, 1998.				
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OTHER DOCUMENTS (Including Authors, Title of Item, Page(s), Vol/Issue No., Publisher, Place of Publication)					
	Khalessi, A. A., Taylor, R. S., Brigham, D. D., North, R. B., "Automated, patient-interactive spinal cord stimulator adjustment: A cost-minimization analysis," Neurosurgery, 53:501-502, 2003.				
	North, R. B., Calkins, S. K., Campbell, D. S., Sieracki, J. M., Piantadosi, S. A., Daly, M. J., Dey, P. B., Barolat, G., "Automated, patient-interactive spinal cord stimulator adjustment: A randomized, controlled trial," Neurosurgery 52:572-580, 2003.				
	U.S. Patent Application Serial Number 10/696,501, entitled "Implantable Neurostimulator Programming with Battery Longevity Indication", filed October 29, 2003, Richard B. North, Kim R. Fowler, Jeffrey M. Sieracki, David D. Brigham.				
	U.S. Patent Application Serial Number 10/696,781, entitled "Neurostimulation Therapy Manipulation", filed October 29, 2003, Richard B. North, Jeffrey M. Sieracki.				
	U.S. Patent Application Serial Number 10/696,725, entitled "Failsafe Programming of Implantable Medical Devices", filed October 29, 2003, Richard B. North, Jeffrey M. Sieracki.				
	U.S. Patent Application Serial Number 10/696,494, entitled "Distributed System for Neurostimulation Therapy Programming", filed October 29, 2003, Richard B. North, Kim R. Fowler, Jeffrey M. Sieracki.				
	U.S. Patent Application Serial Number 10/696,491, entitled "Body Region Indication", filed October 29, 2003, Richard B. North, Jeffrey M. Sieracki.				
	PCT International Search Report for PCT/US03/34170, mailed March 29, 2004.				
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